## **CLAIMS**

## We Claim:

the media.

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- 1. A color calibration system within a printing device comprising:
   2 a controller that controls print functions;
   3 a light emitter situated to emit light on media fed into the printing
   4 device; and,
   5 a color sensor that detects light from the light emitter reflecting off the
   6 media, the color sensor generating a feedback signal for use by the controller,
   7 the controller using the feedback signal for color calibration of images placed on
- 2. A color calibration system as in claim 1 wherein the controller
   additionally uses the feedback signal for at least one of the following:
   adjusting firing timing of a printhead;
   adjusting ink volume placed on the media; and,
   selecting nozzles to be used for printing.
- 3. A color calibration system as in claim 1 additionally comprising:
  an analog-to-digital converter that converts the feedback signal from
  analog to digital before forwarding the feedback from the color sensor to the
  controller.

1	4. A color calibration system as in claim 1 wherein the color sensor
2	detects the following colors: red, green and blue.
1	5. A color calibration system as in claim 1 wherein the light emitter is a
2	white light emitting diode.
1	6. A printing device comprising:
2	a controller for controlling print functions;
3	a light emitter situated to emit light on media fed into the printing
4	device; and,
5	a color sensor for detecting light from the light emitter reflecting off the
6	media, the color sensor generating a feedback signal for use by the controller.
1	7. A printing device as in claim 6 wherein the controller uses the
2	feedback signal in color calibration.
1	8. A printing device as in claim 6 wherein the controller additionally uses
2	the feedback signal for at least one of the following:
3	adjusting firing timing of a printhead;
4	adjusting ink volume placed on the media; and,

9. A printing device as in claim 6 additionally comprising:

selecting nozzles to be used for printing.

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2	an analog-to-digital converter that converts the feedback signal from
3	analog to digital before forwarding the feedback from the color sensor to the
4	controller.

- 1 10. A printing device as in claim 6 wherein the color sensor detects the following colors: red, green and blue.
- 1 11. A printing device as in claim 6 wherein the light emitter is a white 2 light emitting diode.
- 1 12. A method for performing color calibration within a printing device,
  2 the method comprising:
- printing information on media fed into the printing device;
   emitting light onto the media;
- detecting a plurality of colors of light reflected from the media; and,
- 6 adjusting color calibration of the printing device based on the detected
- 7 plurality of colors.
- 1 13. A method as in claim 12, wherein detecting the plurality of colors of 2 light includes the following:
- 3 generating a separate color signal for each detected color.

detected color.

1	14. A method as in claim 12, wherein detecting the plurality of colors of
2	light includes the following:
3	generating a separate analog color signal for each detected color; and,
4	converting the separate analog color signal for each detected color to a
5	digital color signal.
1	15. A method as in claim 12 wherein the plurality of colors comprise red
2	green and blue.
1	16. A printing device comprising:
2	printing means for printing information on media fed into the printing
3	device;
4	emitting means for emitting light onto the media;
5	detecting means for detecting a plurality of colors of light reflected from
6	the media; and,
7	adjusting means for adjusting color calibration of the printing device
8	based on the detected plurality of colors.
1	17. A printing device as in claim 16, wherein the detecting means
2	includes:
3	a generating means for generating a separate color signal for each

- 1 18. A printing device as in claim 16, wherein the detecting means
- 2 includes:
- generating means for generating a separate analog color signal for each
- 4 detected color; and,
- 5 converter means for converting the separate analog color signal for each
- 6 detected color to a digital color signal.
- 1 19. A printing device as in claim 16 wherein the plurality of colors
- 2 comprise red, green and blue.
- 20. A printing device as in claim 16 wherein the emitting means is a
- 2 white light emitting diode.